WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS PATENT OF THE UNITED STATES IS:

1. A laminated glazing material with properties of acoustic insulation and mechanical strength, said glazing material comprising two glass sheets and a single-ply intermediate layer in the form of a polymeric film and having a thickness, wherein the thickness of the intermediate layer is equal to at least d_{ref} J_{ref}/J_c , where:

 J_c is a critical energy value specific to a material of the intermediate layer and representative of an energy necessary for propagation of a crack initiated in the intermediate layer;

 J_{ref} is a reference critical energy value which corresponds to a critical energy value of a polyvinyl butyral (PVB) film and is equal to 35,100 J/m² for a temperature of 20°C and for a drawing rate of 100 mm/min applied to the PVB film; and

 d_{ref} is a reference thickness which corresponds to that of the PVB film and is equal to 0.38 mm.

- 2. The laminated glazing material according to Claim 1, wherein the intermediate layer satisfies acoustic property criteria defined by a bar of 9 cm length and 3 cm width, made of laminated glass comprising two glass sheets of 4 mm thickness joined by the intermediate layer having a thickness of 2 mm, has a critical frequency which differs at most by 35% from that of a glass bar having a same length, a same width and a thickness of 4 mm.
- 3. The laminated glazing material according to Claim 1, wherein the intermediate layer has a loss factor greater than 0.6 and a shear modulus of between 1×10^8 and 2×10^7 N/m² in a temperature range of between 10 and 60°C and in a frequency range of between 50 and 10,000 Hz.
 - 4. A laminated glazing material with properties of acoustic insulation and mechanical

strength, said laminated glazing material comprising two glass sheets and a single-ply intermediate layer, wherein the intermediate layer is made of a composite material, said composite material comprising a polymer and reinforcing fibers embedded in the polymer.

- 5. The laminated glazing material according to Claim 4, wherein the intermediate layer satisfies acoustic property criteria defined by a bar of 9 cm length and 3 cm width, made of laminated glass comprising two glass sheets of 4 mm thickness joined by the intermediate layer having a thickness of 2 mm, has a critical frequency which differs at most by 35% from that of a glass bar having a same length, a same width and a thickness of 4 mm.
- 6. The laminated glazing material according to Claim 4, wherein the intermediate layer has a loss factor greater than 0.6 and a shear modulus of between 1×10^8 and 2×10^7 N/m² in a temperature range of between 10 and 60°C and in a frequency range of between 50 and 10,000 Hz.
- 7. A polymer film having a thickness for use as an intermediate layer of a laminated glazing material, wherein the thickness is equal to at least $d_{ref} J_{ref}/J_c$, where:

 J_c is a critical energy value specific to a material of the intermediate layer and representative of an energy necessary for propagation of a crack initiated in the intermediate layer;

 J_{ref} is a reference critical energy value which corresponds to the critical energy value of a polyvinyl butyral (PVB) film and is equal to 35,100 J/m² for a temperature of 20°C and for a drawing rate of 100 mm/min applied to the PVB film; and

 d_{ref} is a reference thickness which corresponds to that of the PVB film and is equal to 0.38 mm.

8. A polymer film for use as an intermediate layer of a laminated glazing material, wherein the polymer film is a composite comprising a polymer and reinforcing fibers

embedded in the polymer.

9. A process for evaluating a tearing strength of a polymer film of thickness d₁, for use as an intermediate layer of a laminated glazing material, said process comprising the steps of:

determining a critical energy value J_c of the intermediate layer, the critical energy value representing an energy necessary for propagation of a crack initiated in the intermediate layer;

calculating a critical energy value \widetilde{J}_c relative to the thickness using a relationship $\widetilde{J}_c = J_c \; d_1$;

comparing \widetilde{J}_c with a reference value \widetilde{J}_{ref} , representative of a polyvinyl butyral film of 0.38 mm thickness and equal to 13.3 J/m; and

determining when the intermediate layer satisfies a tearing strength criterion when $\widetilde{J}_c > \widetilde{J}_{ref} \, .$